

## ABSTRACT

A method and apparatus provided for controlling fluid control to and from an eye or a phacoemulsification handpiece. The handpiece includes an ultrasonically driven, hollow, sleeved needle and the method includes inserting the needle and sleeve into an eye for phacoemulsification of eye tissue and introducing fluid into the eye through an annulus established between the sleeve and the needle. Aspiration of fragmented tissue and fluid from the eye is conducted through the hollow needle. An initial irrigation fluid pressure is determined and the irrigation fluid flow and aspiration fluid flow are adjusted based upon the initial determination. Thereafter continued determination of irrigation fluid pressure is utilized to continuously adjust irrigation fluid flow and/or aspiration fluid flow.